

Notice of Allowability

Application No.

09/987,100

Examiner

Randy Peaches

Applicant(s)

KIM ET AL.

Art Unit

2686

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Office Action submitted January 14, 2005.
2. ☒ The allowed claim(s) is/are 1, 3-4, 6-15 and 17-23 (renumbered 1-20).
3. ☒ The drawings filed on 13 November 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Regarding independent **claims 1, 6, 11, 13 and 19**, among the cited prior art, the following is the closest prior art relevant to the claimed invention:

a.) **U.S. Patent Number 6,597,918 B1: Apparatus and Method for Transmitting/Receiving Long Messages in Digital Portable Terminal**

b.) **U.S. Patent Number 6,597,918 B1: Random Access Communications Channel for Data Services**

The claimed invention is aimed at a transmission method using a short message service (SMS) that can successively transmit messages that a mobile terminal user intends to transmit, wherein if the message to be transmitted exceeds a predetermined length, identifiers representing a boundary of each predetermined unit of the message and an identifier representing that the message is divided and transmitted are inserted into the units of the message, and the message is divided and transmitted according to the inserted identifiers.

In order to remedy the transmission of over exceeded limit messages (SMS), the Applicant has cited the following limitations:

A short message transmitting method in a communication system comprising:

- checking a number of characters of an input text message;
 - inserting connection information representing a boundary of the text message and identification information for informing that the text message is divided whenever the checked number of characters exceeds a predetermined number;
 - dividing the input text message according to the inserted connection information;
- and

- transmitting the divided text messages,
- wherein the connection information comprises first connection information for informing there is a respective divided text message connected to a rear of the first connection information, and second connection information for informing there is the respective divided text message connected to a front of the second connection information, the first connection information also for informing a connection of the respective divided text message with a further one of divided text message, wherein for a first divided text message among the divided text messages, the connection information is inserted into only an end portion of the first divided text message, ***the end portion being an end to be connected to the next divided text message.***

Kim discloses a short message transmitting method in a communication system comprising:

- inserting connection SMS header which includes a separate long message ID, which reads on claimed "message information representing a boundary" indicating that the transmitted message is a part of a given long of the text message and identification information for informing that the text message is divided whenever the checked number, in step number (212), of characters exceeds a predetermined number.
- dividing the input text message according to the inserted connection information; and
- In step (222), transmitting divided text messages.

wherein for a first divided text message among the divided text messages, the said connection SMS header is inserted into only an **end portion** of the first divided text message.

Quick, Jr. teaches that at the beginning of a message is a flag octet (802) informing that data is following the designated flag, which reads on claimed "divided text message connected in rear of the connection information". A second octet flag (810) is inserted at the end to inform that data is placed in between each of the respected flags.

Although, in contrast with distinctly comparable differences, Kim and Quick, Jr. are considered to constitute to the state of the claimed invention, neither represents the Applicants premise wherein connection information is inserted into a end portion, **the end portion being an end to be connected to the next divided text message** of the first divided text message.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a.) U.S. Patent Number 6,208,859: **Service Preemption for Mobile Terminals in a Mobile Satellite Communication System**

b.) U.S. Patent Number 6,185,208 B1- **Method and Apparatus for Fragmenting Messages for a Wireless Network Using Group Sharing of Reference Number**

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Peaches whose telephone number is (571) 272-7914. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Randy Peaches
March 16, 2006


JOSEPH FEILD
SUPERVISORY PATENT EXAMINER